

100. EXECUTION ENVIRONMENT 20, OPERATING SYSTEM 23 AND DEBUGGER 24 ARE STARTED AND INITIALIZED

101. THE OPERATING SYSTEM 23 AND DEBUGGER 24 CAN CONTROL INITIALIZATION OF THE PROGRAM 21, WITH THE DEBUGGER 24 STARTING AT LEAST ONE THREAD

110. PROGRAM 21 ISSUES A THREAD CREATION REQUEST REQUESTING CREATION OF A THREAD

111. THREAD CREATION REQUEST IS PASSED TO THE DEBUGGER 24

112. DEBUGGER 24 CREATES THE THREAD

113. DEBUGGER 24 ENABLES CREATED THREAD TO START EXECUTION

F I G. 3

120. PROGRAM 21 ISSUES A THREAD DELETION
REQUEST REQUESTING DELETION OF A THREAD

121. THREAD DELETION REQUEST IS PASSED TO THE
DEBUGGER 24

122. DEBUGGER DELETES THE THREAD

F I G. 3A

130. A THREAD EXECUTES A BREAKPOINT INSTRUCTION 131. OPERATING SYSTEM 23 WILL STOPS OPERATION OF **ALL THREADS** 132. OPERATING SYSTEM TRANSFERS CONTROL TO THE **DEBUGGER 2** 133. DEBUGGER 24 ASSUMES CONTROL 134. DEBUGGER 24 IDENTIFIES THE THREAD WHICH CONTAINED THE BREAKPOINT INSTRUCTION 135. DEBUGGER ENABLES THE OTHER THREADS TO **RESUME OPERATIONS** 136. DEBUGGER ALLOWS THE OPERATOR TO CONTROL SUBSEQUENT PROCESSING OPERATIONS IN CONNECTION WITH THE IDENTIFIED THREAD BY RECEIVING COMMANDS THEREFOR